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TO : The Files (XG-866)

DATE: 13 November 1953

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SUBJECT: Trip Report for the GM-1 Engine Gear Drive for GM-58

1. A trip was made to Jacobsen Manufacturing Co. 29 and 30 October, for the purpose of inspecting the progress on the development of the GM-1 engine gear drive for the GM-58. Present were:

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The design and drawings for the GM-1 engine drive were inspected at the contractor's plant and the general layout and configuration noted. The gearing drive has been changed to use a standard three-stage reduction for less noise. The tree clamp design and drawings have been completed, but are awaiting fabrication until the receipt of the gearing.

2. In its present form the engine drive unit sits on the top of the GM-58. The gear drive then plugs into the GM-58 and the engine drive unit and the whole assembly is clamped to the present clamp rings on the GM-58. Three modes of operation are thus possible:

- (a) The engine generator and the GM-58 can operate sitting on the ground.
- (b) They can operate clamped to a tree or
- (c) The GM-1 can operate on the present seat arrangements of the GM-58.

3. Patterns have been forwarded to the foundry and it is anticipated that castings for this model would be received approximately 7 November 1953. Based upon this and the allowance for machining time plus assembly, it is anticipated that the pilot model should be ready for inspection approximately 1 December 1953. In passing it should be noted that the pilot model will have soft steel gears for ease of fabrication, which will definitely limit the life of the unit.

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4. From appearances it is judged that the contractor has been proceeding slowly but satisfactorily on this development. A trip is anticipated to the contractor's plant early in December to inspect the pilot model under operating conditions.

Monthly Report

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